

FIGURE 1

## Clinical and pathological characteristics of breast tissues

	Normal	Carcinoma		
		Total	in situ	Grade 2
Pin1 Positive $\bar{x} \pm SD$	0/10† 0.114±0.106	38/51 (75%) 1.072±0.719	1/4 (25%) 0.564±0.948	20/28 (71%) 0.924±0.609
Cyclin D1	0/10	24/51 (47%)	2/4 (50%)	10/28 (36%)
HER2/neu	0/10	8/51 (16%)	0/4 (0%)	4/28 (14%)
Estrogen receptor	N.D.*	34/50†† (68%)	3/4 (75%)	20/28 (71%)
Age Median (Range)	57 (22-91)	65 (28-90)	72 (43-80)	65 (31-90)
				60 (28-78)

FIGURE 2

## Correlation of the Pin1 level with clinical and pathological characteristics

		Number of cases	Pin1 level ( $\bar{x} \pm SD$ )	P value
Normal Tumor		10	$0.114 \pm 0.106$	<0.0001*
		51	$1.072 \pm 0.716$	
Tumor Grade	Grade 2	28	$0.924 \pm 0.609$	0.02*
	Grade 3	19	$1.399 \pm 0.717$	
Cyclin D1†	Positive	24	$1.364 \pm 0.715$	0.01*
	Negative	27	$0.824 \pm 0.631$	
HER2/neu†	Positive	8	$1.317 \pm 0.732$	0.10
	Negative	43	$1.027 \pm 0.713$	
Estrogen† Receptor	Positive	34	$1.011 \pm 0.718$	0.32
	Negative	16	$1.238 \pm 0.720$	

FIGURE 3

## Differentially expressed genes in Pin1-overexpressed MCF-7 cells

<Up-regulated genes>		<Down-regulated genes>	
5-aminolevulinatase synthase		Serine/threonine protein kinase sgk	
CD97		Alpha 2 actinin	
BIP/GRP78		Tu translation elongation factor (p43)	
<u>PPAR-delta</u>		Platelet-activating factor acetylhydrolase Ib gamma	
SR Y(sex-determining region Y)-box 22 (SOX22)		Eukaryotic translation initiation factor 4E binding protein 1	
IFN-inducible gamma 2 protein			
<u>Fibronectin</u>			
Stress inducible phospho protein 1 (STIMP1)			
Phosphoenolpyruvate carboxykinase 1 (PCK1)			
<u>C-Myc</u>			
Profilin			
Unknown NO81			
EST No20-2			
<u>Cyclin D1</u>			

#genes underlined are wnt/beta-catenin/Tcf-4-target gene

FIGURE 4

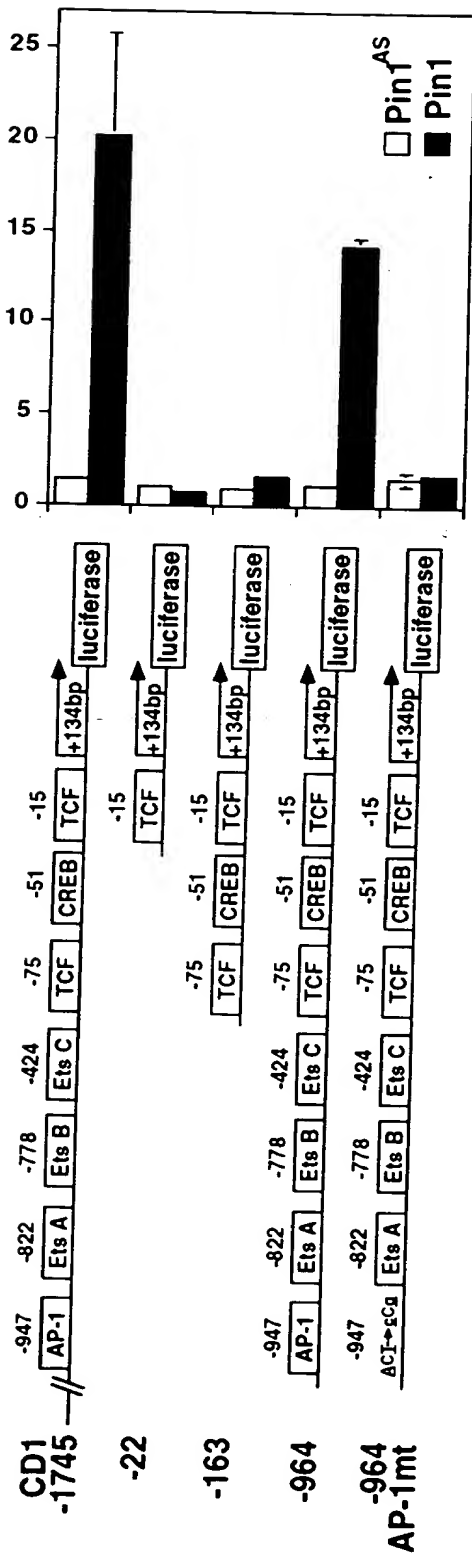


FIGURE 5

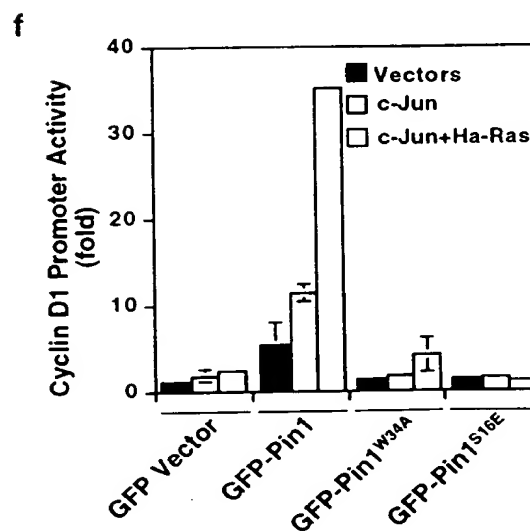
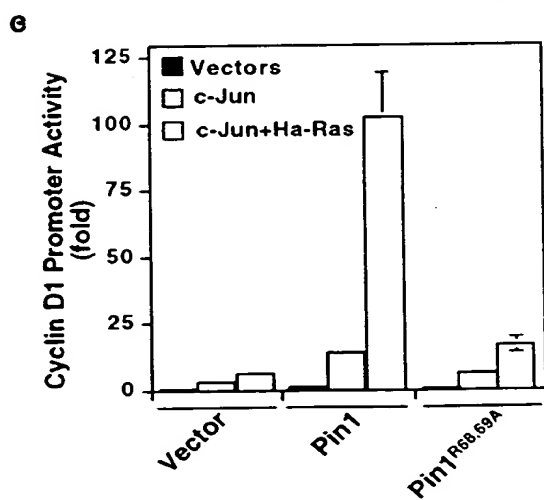
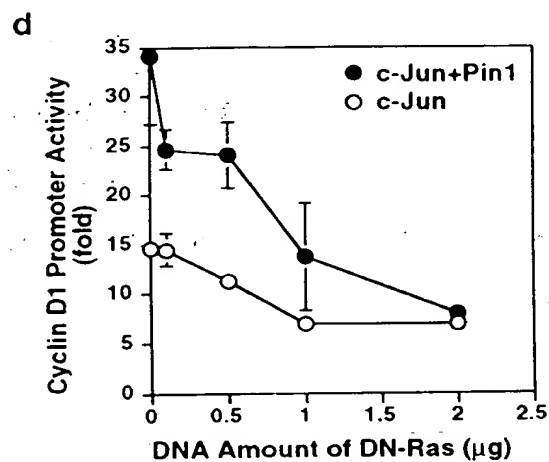
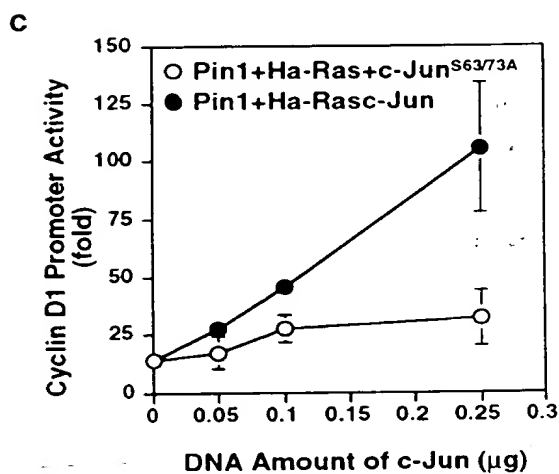
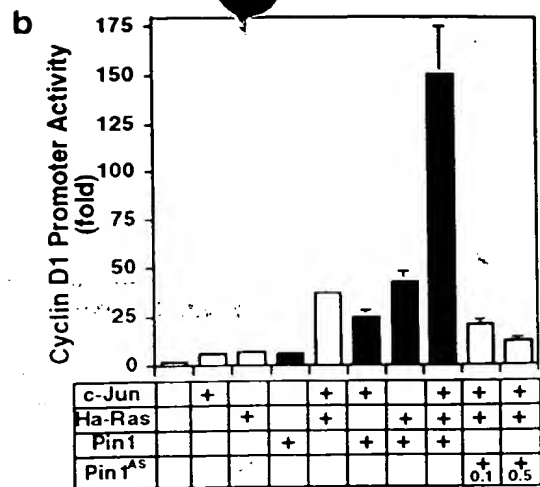
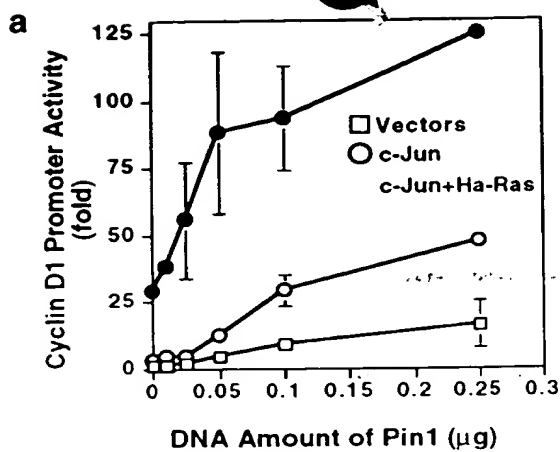


FIGURE 6